

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 794 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:
 (B) CLONE: U-D63

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 52:

GCACGAGGG ATTATAAAAA GAAACTCGCA CTCAGCCAGA TTGACTCAAG CATGAAGGTT	60
GCATCTTTTCG AATGTTCCCTT TTTTTTCCAA CATCTTTTGA ATGTTACATG ACAATCATGA	120
CGCCGTGCAT ACAATGATAC CTCTGATAGG GTTGAATGCA CAAACCACTC ATCGTGCTAT	180
ATTGCAAGTG CTTATGTTTG TATTCATTTT CTTATAATTT CAATGTGAGA GTTACCTTAG	240
GTTTCATATTA NATTTATATA ATATTGGGCA TAGATTTTTT TGTCTATTGTT TGTGATCTGC	300
AATTCATTA GGTTCATGAC CATATTATGG TAAATTTAAT TTAATAAATT ATATCTTGAG	360
TTTATTGCTT TGCATATTTT GTGCTGGAAA CCATGCCAAT CCAACTCCTT TGGAAAACCTT	420
AAGATAATTA AAGGAGATAT TGAGSATGCC GACTGCTTTA GGTATTATTGC ATTANACAAT	480
AAACGCCCGCT GAAATGGAAA TCATGCAAAAG CTTTGCATGG AGAATATGTT NATAGAGATA	540
GACATGAAGA CATGAATATG CTTTCTTGAT GAACAACGAT GTTCACNTGT TTAATGTCATG	600
CATGATACAT CCAATGTCTT AGGCTTGTGG GCAATCATTT TATTCCNAAA ATTGCTCTGT	660
TCTCTNCNC CATAAGGTTA GCTTGTGGAA AATGTTCAAC TTGGGCNCA NATGATCCGT	720
TTTAGCAAAA TCCNCACATT CCTATTTTTT TCCGGAATCC NNTTGGNAAA ANATCCTNAC	780
ATACTATTTC CACA	794

(2) INFORMATION FOR SEQ ID NO: 53:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 798 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:
 (B) CLONE: U-D65

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 53:

GGCAGGAGGC CCGTAGAGCG AGTGCTGAGA TGGCTTTGAG GGCCTTCTTC CCCCTCTGCA	60
TGCGTCTCGT GGTGACGCTC TCACCTCTGT GTGATGCCAC TTCGCCTTAC TACACCATCA	120
CACCGCCGAC CCCCGTGSCC AAGCGCGCCT CAGTTGAACC ACCACCCATC CACGGCCCTC	180
CGACGACCCA CCCTAAGCCA CCGAGTCATG GTGGCCAACC TCCGTCGCCA CATCACCCAA	240

	CACCAATCTA CGGTGCACCC CCTCCGCAAC ACCACCACCA CCACCAACAC CACCACCAAC	300
	CTGCACCACC AACTCAGCGA GAACACCCTC CGTACTACCA CATGCCCTCC CGGCGCCGCG	360
5	ATGGCCAGCA CCCGTCACCA CGGTCACATG ATTATCCCGT ACCTCCTGCT CACAAGCCCC	420
	GAAGTCCGCC GCGGGTTTAC AAGTCTCCAC CACCGACCGA CCGTCCTTAC CCTCCATCGA	480
10	CGCCACCCCA CCATCCGACG CACCGCCTT CTCAGCCGAC GCGTCATAC AAGGCCCCGC	540
	CACCATACAA GAATCCCT GANCATCTCC ACCGCGCGT CACTATCATT CTCGCTCTTC	600
	ACCACCANCA CAACCACCAT NCAATAGTC TCGTTGCAT CTCTCCGTTG AANATGAACC	660
15	AATGTCTTT AATAACGATC AGGGTTTCAA ATAAAAACNA ATTTCCGCCA TTGTAATGCT	720
	ATGGTGTTC TCTCTGCTC CGGGGAAAG TTTCTGGGT CATNTTAACC NCCTCCTAAT	780
20	GTTNGCTCT TNNTANAA	798

(2) INFORMATION FOR SEQ ID NO: 54:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 824 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

(B) CLONE: U-D84

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 54:

40	GGCAGAGCG CCCACCCCG TGGCCAAGCC GCCTTCAGTT GAACCACCAC CTTACCAGCG	60
	CCCTCCGACG ACCCACCCTA AGCCACCGAG TCATGGTGGC CAACTCCGT CCCACCATCA	120
	CCCAACACCA ATCTACGGTG CACCCCTCC GCAACACCAC CACCACCACC AACACCACCA	180
45	CCAACCTGCA CCACCAACTC ACGCAGAACA CCCTCCGTAC TACCACATGC CTTCCCGCC	240
	GCCGATGGC CAGCACCCTG CACCACCGTC ACATGATTAT CCCGTACCTC CTGCTCACAA	300
50	GCCCCGAAGT CCGCGCCGCG TTTACAAGTC TCCACCACCG ACCCACCCTC CTTACCTCC	360
	ATCGACGCCA CCCACCATC CGACGCACCC GCCTTCTCAG CGACGCCGT CATCAAGGC	420
	CCCGCCANCA TNCNAGACCA TCCTTGAGC ACTTCTCCAN CGNTTGGTT TATTATCATT	480
55	CTCCGCTTTC ACCACCACCA CCACCACCAT ACAAATAGTC TCGTTTGCCA TCTCTCGTT	540
	GAAGTAGAGC CAGTGTGTT TTAGTAGCGA TCAGGTTTAC CAATAAGAAC GATGTGGCG	600
60	CGATTGTAAT GGCATATGTT GTTCTCTCTG CTTTCCGGG GGAAGTTCT TTGGGTTCAT	660
	GTTAAACCTC TCTCTTAAT GTTCATGCAT CTTATTATAA ACNAAAATTG GCCATTNNN	720
	NNNTNTNTN NNNNTNTNN NNNNNAAAC TCNAAAAATA TTTTAAAAA CGGGCGGGGG	780
65	GCCCACATNAT TTCCNCCC GGGTNGGGN TCCAGNTTA TTNT	824

(2) INFORMATION FOR SEQ ID NO: 55:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 797 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single
(D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:
(B) CLONE: U-D75

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 55:

GGCACGAGGG	TTACGATCGT	CATGTTGGGG	GTGTTGAGCG	GGGNAGGTGG	TGGAGGTGCC	60
GGCGGAGCTG	GTGGCCGCCG	GCAGCAGGAC	GCCGTCCCTC	AAGACACGAG	CGTCGGAGCT	120
GATCAACCGA	TTCTCTGGGA	GCTTCGCTCC	CGCGTGTGCG	ATCCAGATCG	GGGACTTGGG	180
ACACCTCGCC	TACTCCCACG	CCAACCAAGT	CCCCTTCGCT	CCCAGGTTGT	TTGCAGCGAA	240
GGACGANATT	TACTGCCTCT	TCAAGGGAGT	GCTGACCAAC	CTGGGCAGCT	TGAGGCAGCA	300
GTATGGGCTT	TCCAAGAGTG	CCGACNAGGT	GGTGCTGGTC	ATCGAAGCCT	ACAAGGCCCT	360
CCGTGACCGA	GCTCCCTATC	CTCCCAGCTT	CATGCTCGCA	CACCTTACTG	GCAACTTCGC	420
CTTCGTGCTC	TTGACAAGT	CCACATCATC	CATCCTTGTT	GCATCTGACC	CANATGGAAN	480
ANTACCTTGT	TTCTGGGGGA	TCACTGCANA	TGGATGCCTT	GCCTTTGCTG	ACNATCTANA	540
CTTGCTGAAG	GGATCGTGCG	GGAAGTCACT	TGCACCATTG	CCTGAAGGAT	GTTACTATTG	600
CAATGCCTTG	GGGGGCCGTG	AAANCTATGA	AAACCCCAAC	ACAAGGTGAA	CTGCTGTTTC	660
TTGAANATGA	AGAANAATTN	TTTGTGCCNC	TTTCAAGGTG	GAANGATCTG	CNNTCTTGC	720
GGNAACCCCG	TATCAAGGA	ACATCTTCCA	ATGTTTGGGG	CNAATGATCC	TCTTAAATC	780
CTAAAATTCT	TGGAATT					797

(2) INFORMATION FOR SEQ ID NO: 56:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 804 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:
(B) CLONE: U-D83

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 56:

GGCACGAGCT	TCCACACAGG	TGAGGGTAAG	TCGGTTACGA	TCGTCATGTT	GGGGGTGTTG	60
AGCGGGGAGG	TGGTGGAGGT	CCGGCGGAG	CTGGTGCCG	CCGGCAGCAG	GACGCCGTCC	120
CCTAAGACAC	GGGCGTCGGA	GCTGATCAAC	CGATTCTCTG	GGAGCTTCGC	TCCCGCGGTG	180
TCGATCCAGA	TCGGGGGACT	GGGACACCTC	GCCTACTCCC	ACGCCAACCA	GTCCCCCTTC	240
GCTCCAGGT	TGTTTGACG	GAAGGACGAN	ATTACTGCC	TCTTCAAGGG	AGTGCTGACC	300
AACCTGGGCA	GCTTGAGGCA	GCAGTATGGG	CTTCCAAGA	GTGCCGACNA	GGTGGTGCTG	360